# CENTER FOR DRUG EVALUATION AND RESEARCH

Application Number 74-771

FINAL PRINTED LABELING



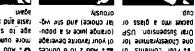


Cholespyrations for this Suspension, USP. You may may be suit you



s of age





92U noiznagzuz ierO one Cholestyramine for T. Pour contents of S. Add 2 to 6 ounces 3. Add

your choice of noncarbonated Cholestyramine for oral suspension, US PREPARATION OF CHOLESTYRAMINE FOR C



CHOR STYTEMING TOT UTBI SUSPENSION. Each packet contains 4 grains of anhydrous cholestyramine in 9 grams of nans nozede: 2ee backage insert. Store between 15' and 30'C (59' and 86'F).

4 grams cholestyramine resin, USP, per packet

# FOR ORAL SUSPENSION, USP **CHOLESTYRAMINE**



NDC 0135-**5830**-90

**60 SINGLE DOSE PACKETS** 

# ith Goldline

## **PHARMACY LABEL**

The state of the s

- · Maintain diet and exercise as directed by your
- . Find a suitable time to take your medication daily (it may be useful to take Cholestyramine for Oral Suspension, USP with meals).
- Cholestyramine For Oral Suspension, USP care be mixed and refingerated for three days (remember to mix well each time before drinking or eating).
- Cholestyramine For Oral Suspension, USP can also be easily mixed in a blender.
- Ask your pharmacist or physician for new and different ways to prepare Cholestyramine For Oral Suspension, USP.
- Always mix Cholestyramine For Oral Suspension, USP with water, or the beverage of your choice, or other highly fluid foods or fruits before using.
- Usual Dosage: See package insert for dosage information.

WARNING: Keep this and all medication out of the reach of children.

Cholestyramine For Oral Suspension, USP is manufactured under strict quality control standards by Zenith Goldline Pharmaceuticals, Inc., a worldwide leader in healthcare.

# CARTON 27672 PRINT S

60 SINGLE DOSE PACKETS

NDC 0172-

## PREPARATION OF CHOLESTYRAMINE FOR ORAL SUSPENSION, USP: Cholestyramine for oral suspension, USP can be mixed with your choice of noncarbonated beverage

Pour contents of one Chalestyramine for Oral Suspension USP packet into a glass or

2. Add 2 to 6 ounces of your tavorite beverage more ounces of bever-(orange juice is a popufar choice) and stir vioorously



3. Add at least 2-4 age to suit individual taste and stir vigorously









# FOR ORAL SUSPENSION, US

4 grams cholestyramine resin, USP, per packe

Usual Dosage: See package insert. Store between 15' and 30°C ( \*Each packet contains 4 grams of anhydrous cholestyramine in of Cholestyramine for Oral Suspension.

CAUTION: FEDERAL LAW PROHIBITS DISPENSING WITHOUT PRESCRIPTION

# CAHION LABEL 27672A.EPS PRINT SIDE UP

NDC 0172-2830-90

# HOLESTYRAMII R ORAL SUSPENSION, USP

rams cholestyramine resin, USP, per packet\*

Dosage: See package insert. Store between 15' and 30°C (59' and 85°F). ich packet contains 4 grams of anhydrous cholestyramine in 9 grams of Cholestyramine for Oral Suspension

PREPARATION OF CHOLESTYRAMINE FOR ORAL SUSPENSION, USP: Cholestyramine for oral suspension, USP can easily be mixed with highly fluid foods or fruits.

1. Pour contents of one Cholestyramine for Oral Suspension. USP

2. Add at least 6 3. Mix well. ounces of applesauce or other lood.

4. The slightly-textured Cholestyramine for Oral Suspension USP mixture is now ready to









980 YOM ONN' STRUBERON' FIRE CHOFEZ LARVINE

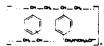


## CHOLESTYRAMINE FOR ORAL SUSPENSION, USP

CAUTION: FEDERAL LAW PRO-HIBITS DISPENSING WITHOUT PRESCRIPTION

DESCRIPTION
Choisstyramme for Oral Suspension, USP, the chloride salt of a basic anon exchange rism, a cholesterol lowering agent, is intended for oral administration.

\*\*Challestyramine pressin is quite.\*\* attended for oral administration. Cholestyramme resm is quite hydrophilic, but insoluble in water. The cholestyramme resm in mis product is not assorbed from the digestive tract. Nine grams of cholestyramme for oral suspension contain 4 grams of anhydrous cholestyramme resm. It is represented by the following structural formula:



### Representation of structure of main polyment groups

Cholestyramine for Oral Suspension USP contains the following inactive ingredients: acacia NF, citric acid (anhydrous) USP natural lemon flavor, sucrose NF (Bakers special), xamthan gum NF.

CLINICAL PHARMACOLOGY
Cholesterol is probably the sole precursor of bile acids. During normal degestion, bile acids are secreted who the infessions. A major portion of the bile acids as absorbed from the intessinal tract and returned to the liver via the enteronepatic circulation. Only very small amounts of bile acids are found in normal serum.

Cholestyramine resin absorbs and combines with the bits acids in the enterther to form an insoluble complex which is excreted in the Bloss. This results in a partial removal of bits acids from the enterchaptatic circulation by preventing their absorption.

The increased fecal loss of bite acids due to cholestyramme reain, ISP administration leads to an increased condition of cholesterol to bite acids, a decrease in bita lipoprotein or love density apportien plasma levels and a decrease in serum cholesterol levels. Abhough in man, cholesterol levels. Abhough in man, cholesterol levels resin, USP products an increase in hepatic synthesis of cholesterol, clasma cholesterol levels fall.

in patients with partial bilitary obstruction, the reduction of serum bile acid levels by

in a large, placebo-controlled, multi-clinic study, LRC-CPPT1, hypercholesterolernic subjects areason with cholestyramine resin had mean reductions as lotal and low-density ipoprosen cholesterol (LDL-C) with presented. (LDX-C) which expected those for deal and placebo treatment by 7.2% and 10.4%. Respectively. Over the seven-year study period the cholestynamine reason group experienced a 19% reduction (relative to the incidence in the placebo group) in the combined rate of criminary heart diseases death glus. cholestyramine resm and 8.6% placabol. The subsects included in the subsects included in the subsects included in the subsect were men aged 35 to 59 with serum cholesterol levels above 265 mg/dt and no previous history of heart cleases it is not clear to what extent these findings. can be extrapolated to fernales and other segments of the hypercho-lesterolerisic population.

Two controlled clinical trials have acamined the effects of cholestyramen monotherapy upon corplary afteroscierobic lesions using coronary afteroversion Trial. 115 patherts (80% male) with company aftery desease (CAD) documented by afterography were randomized to cholestyramine resion of coronary aftery disease in 49% of places patherts compared to 32% of the cholestyramine resin group Le-0.05.) a 35% reduction of disease progression with cholestyramine resin treatment.

gression with cholesryramine risin treatment.

In the St. Thomas Atteroscierosis Regression Study (STARS)<sup>2</sup>, 90 hypercholesterolerinic men with CAD were randomized to three binded treatments: usual care, hydricowering det and hydricowering det plus cholestyramine resin. After 36 months, follow-up coronary artenography revealed progression of disease in 46% of usual care patients. 15% of patients on hydricowering det and 12% of those receiving det plus cholestyramine risin (pcC.02). The mean absolute width of coronary segments decreased on the usual care group, increased sightly (0.003 mm) in the deep plus cholestyramine group (pc.0.05). Thus, in these randomizer controlled chimical mass using coronary arrenography, cholestyramine resin monortherapy has demonstrated to slow progression of atteroscierotic lesions in the coronary arteries of patients with or at risk for coronary arreny disease.

The effect of intensive inpid-lowering therapy on coronary atherosciencis has been assessed by arteriography in hyperispotenic patients, in these randomized, controlled climical trials, patients were trialed for two to four years by either conventional measures (lote), placebo, or in some clases low dose resin), or intensive combination therapor usern elections. bord use reserve com-bration therapy using deliptus collectipol (an anion exchange resin with a mechanism of action and an effect on serum lipids simi-dar to that of Cholestyramme for Oral Suspension) plus either reco-tinic acid or lovastatim. When com-named to compared to conventional measures interior to convenional measures, interiors individually reduced the frequency of progression and increased the frequency of regres-sion of coronary atheroscleroic sistons in patients with or at mix for coronary artery disease.

INDICATIONS AND USAGE

1) Cholestyramine for Drail.
Suspension, USP is indicated as adjunctive therapy to dief for the

on and SION of coronary atherosciarotic lesions in patients with or at risk for coronery artery d

INDICATIONS AND HEAGE

1) Cholestyramine for Oral Suspension, USP is indicated as 1) Choiestyramine for Oral Suspension, USP is indicated as adjunctive therapy to diet for the reduction of elevated serum cholestarol in patients with primary hypercholesterolemia (elevated low density lipoprotein (IDL) choiesterol who do not respond adequately to diet. Choiestyramine resun may be useful to lower LDL, choiesterol in patients who also have hypertinglycendemia, but it is not indicated where hypertinglycendemia is the abnormality of most concern.

Therapy with lipid-altering agents should be a component of multiple risk factor intervention in those individuals at significantly increased risk for sheroscientic viscolar disease due to hypercholistoriemia. Insament should begin and continue with dietary therapy specific for the type of hyperspoproteinemia detarmmed prior to initiation of drug therapy. Excess body weight may be an important factor and caloric restriction for weight normalization should be weight normalization should be addressed prior to drug therapy in the overweight.

in the overweight.

Prior to instating therapy with cholestyramine rasin, secondary causes of hypercholesteroled debetes melhius, bypothyroidism, esphrotic syntrome, dysproteinemas, obstructive liver disease, other drug therapy, alcoholism), should be excluded, and a lipid profile performed to assess lotal cholesterol. HDL-C, and trighycendes (TG). For individuals with TG less than 400 m.ydd (<6.5 mmolth), LDL-C can be estimated using the following equation:

LDL-C = Total chrimsterol - [(TG/5) + HDL-C]

For TG levels > 400 mg/dl, this equation is less accurate and LDL-C concentrations should be determined by ultracentrifugation. In hypertrigityceridemic patients, LDL-C may be low or normal despite elevated Total-C. In such cases cholestyramine resin may not be inferented. not be indicated

not be indicated.

Serum cholesterol and triglyceride levels should be determined periodically based on NCEP guidelines to confirm interactions. A favorable trend in cholesterol reduction should occur during the first month of cholestyramine resin therapy. The therapy should be continued to sustain cholesterol reduction if adequate cholesterol reduction in oil attained, increasing the dosage of cholestyramine resin or adding other inpid-lowering agents in combination with cholestyramine resin should be considered.

Since the goal of treatment is to flower LDL-C. the NCEP4 recommends that LDL-C levels be used to initiate and assess treatment response. If LDL-C levels are not available then Total-C alone may be used to monitor long-term therapy. A impoproterm theraps is including LDL-C determination) should be carried out once a year. The NCEP treatment guidelines are summarized below.

Debray Owner'	Tons or More Other Real Factors	1	-
NO	MC	≥190 (≥4.9)	180 (cd 1)
₩0	WES	2180 (24.1)	<130 (-2 4)
YES	YES or MID	≥130 (≥3.4)	5100 (⊈2.6)

\*Coronary heart disease or peripheral vascular disease (including symptomatic carolid artery disease)

- 1	1		1
es i	153 - H	2430 (23.4)	100)

"Other risk factors for coro-nary heart disease (CHO) include: age (males: 245 years; females: 255 years or prema-ture menopase without estro-gen replacement therapy); fami-ly history of premature CHO: usernt caractes making: y instory of premature CHD, current cigarette smoking; hypertension; confirmed HDL-C <35 mg/dl (<0.91 mmol/L); and diabetes melitus. Subtract one nak factor if HDL-C is ≥60 mg/dl (≥1.5 mmol/L).

Cholestyramine resin Cholestyramine resin monotherapy has been demonstrated to retard the rate of progression" and increase the rate of regression of coronary attendations of coronary attendations that LRC-CPPT trial, cholestyramine resin the

2) Cholestyramine for Oral Suspension. USP is indicated for the relief of pruntus associated with partial bilary obstruction. Cholestyramine for Oral Suspension, USP has been shown to have a vanable effect on serum cholesterol in these patients. Patients with primary bidary cirnosus may exhibit an elevated cholesterol as part of their disease.

CONTRAINDICATIONS
Cholestyramine resin. USP is contraindicated in patients with complete bilitary obstruction where bile is not secreted into the intestine and in those individuals who have shown hypersensitivity to any of its components.

components.

PRECAUTIONS
General
Chronic use of cholestyramine
resin, USP may be associated
with increased bleeding lendency to hypoprothrombinemia
associated with Vitamin K dehcency. This will usually respond
promptily to parenteral Vitamin
K1 and recurrences can be prevented by oral administration of
Vitamin K1. Reduction of serum
or red cell foliate has been
reported over long term adminstration of cholestyramine
resin, USP Supplementation
with folic acid should be considered in these cases.

There is a possibility that nec-

There is a possibility that pro-longed use of cholestyramine resin. USP, since it is a chloride form of anion exchange rasin, may produce hyperchloremic acidosis. This would especially be true in younger and smaller patients where the relative dosage may be higher. Caution should also be exercised in patients with renal insufficiency or volume depletion, and in patients receiving concomitant patients receiving concomitant

spironolactorie.

Cholestyramine resin, USP may produce or worsen pre-existing constitipation. The dosage should be increased gradually in gatems to minimize the risk of developing lecal impaction. In patients with pre-existing constitipation, the starting dose should be illustrating dose should be illustration and of serum tipoproteins, at least twice. 4 to 6 weeks apart increased fluid imtake and liber intake should be encouraged to allevate constipation and a stool softener may occasionally be indicated. If the initial dose is well tolerated, the dose may be increased as needed by one dose/day (at morthly intervals). dose/day (at monthly intervals) with periodic monitoring of serum inpoproteins

serum ipoproteins if constipation worsens or the desired therapeutic response is not achieved at one to six doses/day, combination therapy or alternate therapy should be considered Particular effort should be made to avoid constipation in patients with sympto-

Inform your physician if you are pregnant or plan to become pregnant or are breastreeding. Drink clienty of fluids and mix each 9-gram dose of Cholestvramme for Oral Suspension. USP in at least 2 to 6 ounces of fluid before taking. Supping or holding the resin suspension in the mouth for prolonged periods may lead to changes in the surface of the teem resulting in discoverage or the teem resulting in discoverage or the teem resulting in discoverage or the teem resulting in discoverage of the teem resulting in the surface of

Laboratory Tests
Serum cholesterol levels should be determined frequently during the first lew months of therapy and periodically thereafter. Serum triplycende levels should be measured penodically to detect whether significant changes have occurred.

The LRC-CPPT sowed a dose The LRC-CPPT sowed a doser-related storage in servinglycendes of 10.7%-17.7% in the cholestyramine-treated group. compared with an increase of 7.9%-11.7% in the placebo group. Based on the mean values and adjusting for the placebo group. The cholestyramine-treated group showed an increase of 5% over pre-entry levels the tirst year of the study and an increase of 4.3% the seventh year.

One interactions
Cholestyramine resin. USP may delay or reduce the absorption of concommant oral medication such as phenyibutazone, wartarin, thiazide dujenics (acidic). or propranoiol (basic), as well as tetracycline, penculin G, phenobarbital, thyroid and thyroxine preparations, estrogens and ine preparations, estrogens and progestins, and digitalis, inferience with the absorption of oral phosphate supplements has been observed with another positively charged bile acid sequestrant. Cholestyramine resin may interfere with the pharmacokinetics of orugs that undergo enteronepatic circulation. The discontinuance of cholestyramine resin, USP could pose a hazard to health if a potentially toxic drug such as digitals has been titrated to a maintenance level while the patient was taking cholestyramine resin. USP.

Because cholestyramine binds bite acids, cholestyramine resin. USP may interfere with normal fat digestion and absorption oil fat-soluble vitamins such as A, D, E and K. When cholestyramine resin. USP is given for long periods of time, concomitant supplementation with water-miscible (or parentral) forms of fat-soluble vitamins should be considered.

Should be considered

SINCE CHOLESTYRAMINE
RESIN. USP MAY BIND OTHER
DRUGS GIVEN CONCURRENTLY.
IT IS RECOMMENDED THAT
PATIENTS SHOULD TAKE OTHER
DRUGS AT LEAST ONE HOUR
BEFORE OR 4 TO 6 HOURS
AFTER CHOLESTYRAMINE
RESIN. USP (OR AT AS GREAT
AN INTERVAL AS POSSIBLE) TO
AVOID IMPEDING THEIR
ABSORPTION.

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Impairment of Fartilley
In studies conducted in rats in
which cholestyramme resin was
used as a tool to investigate the
role of vanous intestinal factors,
such as fat, bite saits and microbail flora, in the development of
miestinal tumors induced by
potent carcinogens, the incidence of such tumors was
observed to be greater in
cholestyramine resin-treated rats
than in control rats.

The relevance of this laboratory observation from studies in rats to the clinical use of cholestyramine resin. USP is not known, in the LRC-CPPT study referred to above, the total modernce of lattal and norditatin neoplasms was similar in both treatment groups. When the many different categories of tumors are examined various alimentary system can

NAME. LEST MAT BINLE OTHER DRUGS GIVEN CONCURRENTLY. IT IS RECOMMENDED THAT PATIENTS SHOULD TAKE OTHER DRUGS AT LEAST ONE HOURS AFTER CHOLESTYRAMINE RESMI, LEST (OR AT AS GREAT RESMI, LEST (OR AT AS GREAT AN INTERVAL AS POSSIBLE) TO AVOID IMPEDING THEIR ABSORPTION.

Carcinopenesis, Metagenesis, Imperment of Fertility
In Studies Conducted in rats in which choicestyramne rean was used as 2 sool to investigate the rate in our entering of wincours entering and microbal flora, in the development of missional immors enduced by potent carcinopens, the incidence of such tumbors was observed to be greater in cholestyramne resin-trained rats than an control rats.

The relevance of this laboratory observation from studies in rats to the clinical use of cholestyramine reson, USP is not known; in the LRC-CPPT study referred to above, the total incodence of tax and nontrain enopeasms was similar in both treatment groups. When the many deterent categories of burnors are examined, vanous alimentary system cancers were somewhat more prevention in the cholestyramine group. cars were somewhat more prevalent in the cholestyramine group.
The small numbers and the multiple categories prevent conclusions from being drawn,
However, in wew of the fact that
cholestyramine resin is continued
to the Gi tract and not absorbed,
and in light of the animal expenments referred to above, a sixyear post-trial follow-up analysis
of the LRC-CPPT genterin populabon has been completed to total
of 13.4 years of in-trial plus postinal follow-up) and revised in
significant difference in the incidence of cause-specific mortality
or cancer morbidity between
cholestyramine and placebo
treasted patients. lent in the cholestyram.

Pregnancy: Versiegenic Effects, Pregnancy Category C Since cholestyramine resin, USP is not expected to cause fetal harm when administered during pregnancy in recommended dosages. There are, however, no adequate and well controlled studies in pregnant women, and the known interfer-ence with absorption of fal-sol-uble vitamins may be detrimen-tal even in the presence of sup-

Mersing Methers
Caution should be exercised when cholestyramine resin. USP is administered to a nursing mother. The possible lack of proper vitamin absorption described in the "Pregnancy section may have an effect on nursing infants."

Pediatric Use As experience in the pediatric population is limited, a practical dosage schedule has not been established.

in calculating pediatric dosages. 44.4 mg of anhydrous cholestyra-mine ream are contained in 100 mg of cholestyramine for oral sus-pension, USP.

The effects of long-term drug administration, as well as its effect in maintaining lowered cholesterol levels in pediatric patients, are unknown.

### ADVERSE REACTIONS

ADVERSE REACTIONS

The most common adverse reaction is constination. When the reaction is constitution from the reaction is consistent from the reaction fro

communition or merapy

Less frequent Adverse Reactions.
Abdominal disconfort adverse
and frame, assess, womening, discribes, eructation
anorexia, and steatorrhea,
bleeding tendencies due to
hypopromeombinemia (Vitamin
K deficiency) as well as Vitamin
A (one case of might bindness
reported) and D deficiencies,
hyperchioremic acidosis in chil-

The most common adverse reaction is constitution. When used as a cholesterol-toward agent predisposing factors for most complaints of constitution are high dose and increased age (more than 60 years old). Most instances of constitution and increased agentic transient, and controlled with conventional therapy. Some patients require a temporary decrease in dosage or discontinuation of therapy.

Less Frequent Adverse Reactions:
Abdominal discomitorit and/or
pain, litanience, nausea, vorniring, disrrhea, eructation,
anorexia, and steatorchea,
bleeding tendencies due inhypoprotinrombinemia (Vitamin
K deficiency) as well as Vitamin
K deficiency) as well as Vitamin
K dencency) as well as Vitamin
K dencency) as well as Vitamin
K dencency as on high bindness
reported) and D deficiencies,
hyperchloremic acidosis in children, osteoporosis, rash and
erritation of the sion, tonque and
erritation of the sion, tonque and
erritation of the sion, tonque and
erritation presumed to be
due to cholestyramine resin,
USP after time days of administration of 9 grams daily. She
developed acute intestinal sepsis and deel.

Occasional calcified material has been observed in the bisary tree, including calcification of the galibladder, in patients to whom cholestyramme resin has been given. However, this may be a maintestation of the love resease and out drop nistated.

One patient experienced bilary colic on each of three occasions on which he took a cholestyramine for oral suspension product. One patient diagnosid as acute abdominal symptom complex was found to have a "pasty mass." in the transverse colon on x-ray.

Other events (not necessarily drug related) reported in patients taking cholestyramine resin, USP include:

Gastrointestinal—G1-rectal bleeding, black stools, hemormondal bleeding, bleeding from known duodenal ulcer, dysphacia, hiccups, ulcer attack, sour taste, pancreatitis, rectal pain, diverticultis.

Laboratory test changes— Liver function abnormalities.

Hematologic—Prolonged prothrombin time, ecchymosis, anemia

Hypersensitivity—Urticaria, asthma, wheezing, shortness of breath

Musculoskeletai—Backache, muscle and joint pains, arthrits,

Neurologic—Headache, arusety, verigo, dizziness, tatique, innetus, syr-cope, drowsiusss, femoral neive pain, parestresia.

Eye-Uveits.

Renal-Hernaturia, dysuna, burnt odor to urine, diuresis.

Miscellaneous—Weight loss, weight gain, increased libido, swoten glands, edema, dental caries, erosion of tooth ename! tooth discoloration.

OVERDOSAGE

OVERDUSABLE
OVERTOSABLE With cholestyramme resm. USP has been reported in a patient taking 150% of the maximum recommended daily dosage for a period of several weeks. No like effects were reported. Should an overdosage occur, the civil potential harm would be obstruction of the gastrointestinal tract. The location of such potential obstruction, the degree of obstruction, and the presence or absence of normal gut motivity would determine treatment.

### DOSAGE AND ADMINISTRATION

The recommended starting adult dose for cholestyramme for oral suspension, USP is one packet or one livels excoptly (9 grans of cholestyramme for oral suspension, USP contains 4 grans analydrous cholestyramme resim once or twice a day. The recommended maintenance dose for cholestyramme for oral suspension USP is 2 to 4 packets or USP is 2 to 4 packets or

auch potential obstruction, the degree of obstruction, and the presence or absence of normal out motility would determine

# DOSAGE AND ADMINISTRATION

The recommended starting adult dose for cholestyramme for oral suspination, USP is one packet or one livel accopitul (9 grants of cholestyramme for oral suspension, USP contains 4 grants of arrhydrous cholestyramme reson) once or levice a day. The recommended maintenance dose for cholestyramme for oral suspensional systems or oral suspensional control oral cont choestyramme for oral suspen-sion, USP (24 grams of anty-drous cholestyramme resm). The suggested time of administration suggested time of administration is at meatine but may be modi-hed to avoid interference with absorption of other medications. Athough the recommended dos-ing schedule is twice daily, cholestyramine for oral suspen-sion, USP may be administered in 1-6 doses per day.

Cholestyramine for Oral Suspension should not be intention in its dry lorm. Always mix thoustyramine resin, USP with water or other fluids before inpesting. See Properation instructions.

Concentant Therapy

Concentant Therapy

reliminary evidence suggests that the lipid-lowering effects of coolestyramine on total and DL-cholesterol are enhanced when combined with a HMG-COA reductase inhibitor, e.g., uravastatin, lovastatin, smrvastatin and ilgusatiatin Additive shects on LDL-cholesterol are also seen with combined nucohibic acidycholestyramine therapy. See the Drug interactions subsection of the PRECAUTIONS section for recommendations on administering concomitants interapy.

Propagation
The color of cholestyramine resin. USP may vary somewhat from batch to batch but this variation does not affect the performance of the product Place the contents of one single-dose packet or one level scoopful of cholestyramine resin, USP in a plass or cup Add at least 2 to 8 ounces of walt-r or the beverage of your choice. Stir to a uniform consistency.

Cholestyramine resin, USP

Cholestyramine resin. USP may also be mixed with highly fluid soups or pulpy fruits with a high moisture content such as applesauce or crushed pineapple.

## HOW SUPPLIED

HOW SUPPLED Cholestyramine for oral suspension. USP is available in cartons of sonly 9-gram packets and in cans containing 378 grams. Nine grams of cholestyramine for oral suspension. USP contain 4 grams of anhydrous cholestyramine resin. Sione between 15°C and 30°C.

NDC 0172-2830-90 Carten of 60 packets NDC 0172-2830-36 Cans. 378 g

REFERENCES
1 The Lipid Research Clinics
Coronary Primary Prevention
Trial Results (I) Reduction in
Incidence of Coronary Heart
Disease (III) The Relationship of
Reduction in Incidence of
Coronary Heart Disease
Tochoestero

2. Brensike JF, Levy RI, Kelsey SF, et al. Effects of therapy with cholestyramine on progression of coronary arteriosclerosis: results of the NHLBI type II coronary intervention study. Circulation 1984:69:313-24.

Preparation
The color of cholestyramine resin. USP may vary somewhat from batch to batch but this variation does not affect the performance of the product Place the contents of one single-dose packet or one investigation. USP in a glass or cup. Add at least 2 to 6 ounces of water or the beverage of your choice. Stir to a uniform consistency.

Cholestyramme resin. USP may also be mored with highly fluid soups or pulpy truits with a high moisture content such as appliesauce or crushed pineappie.

HOW SUPPLIED
Choissyramme for oral suspension, USP is available in cartors of sody 9-pram packets and in cars containing 378 grains. Nine grains of choissyramme for oral suspension. USP contain 4 grains of anhydrous choisesyramme resm. Store between 15°C and 30°C.

NDC 0172-2830-90 Carton of 60 packets NDC 0172-2830-36 Cans. 378 g

REFERENCES

1. The Lipid Research Clinics
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Reduction in Incidence of
Coronary Heart Disease to
Coronary Heart Disease to
Coronary Lowering JAMA
1964: 251:351-374.

- 2. Brensike JF, Levy RI, Keisey SF, et al. Effects of therapy with cholestyramine on progression of coronary arteriosclerosis: results of the NHLBI type if coronary intervention study. <u>Circulation</u> 1984:69:313-24.
- 3. Watts. GF. Lewis B. Brunt JNH. Lewis ES. et al. Effects on coronary arrery disease of ippo-iowering diet, or diet plus Cholestyramine, in the St. Thomas Atherosclerosis Regression Study (STARS). Lancet 1992;339:563-69.
- 4. National Cholesterol Education Program Second Report of the Expert panel on Detection. Evaluation, and Treatment of High Blood Cholesterol in Adults (Adult Treatment Panel II). Circulation 1994 Mar:89(3):1333-445.

May 1997

Manufactured by:

0172

Pt. Lauderdale, Ft. 33309 B1

1001396 Rev. 9705

Single Dose

# Zenith Goldline

# **CHOLESTYRAI**

FOR ORAL SUSPENSION, USP

**CAUTION: FEDERAL LAW PROHIBITS** DISPENSING WITHOUT PRESCRIPTION.

Usual Dosage: See Package Insert. Store between 15' and 30°C (59' and 86°F).

Preparation: Place the contents of one packet in a glass or cup. Add at least 2 to 6 ounces of water or the beverage of your choice. Stir to a uniform consistency.

Keep this and all medication out of the reach of children. This package is not child-resistant.

Each packet contains 4 grams of anhydrous cholestyramine in 9 grams of Cholestyramine For Oral Suspension, USP.

This product contains sucrose.

Z

ZENITH GOLDLINE PHARMACEUTICALS, INC. FT LAUDERDALE, FL 33309 X001393 Rev. 9704

**04**97J



NDC 0172-2830-36

**MEASURED DOSES** VIENTS 378 g (168 g ANHYDROUS CHOLESTYRAMINE)

# CHOLESTYRAMINE FOR ORAL SUSPENSION, USP

4 grams cholestyramine resin, USP, per scoopful\* This product contains sucrose.

SCOOP ENCLOSED.

Scoop provided is not erchangeable with scoops for other products.

Usual Dosage: See package insert. Store between 15" and 30"C (59" and 86"F).

# **CAUTION: Federal law prohibits** dispensing without prescription.

# Preparation

- 1. A scoop is enclosed to help you measure accurately. Do not force or pack the powder into the scoop.
- 2. Place one level scoopful of **CHOLESTYRAMINE FOR ORAL** SUSPENSION, USP in a glass or cup.
- 3. Add 2 to 6 ounces of water or the beverage of your choice and stir vigorously.
- 4. Add at least 2-4 more ounces of beverage to suit individual taste and stir vigorously again.
- 5. The slightly textured CHOLESTYRA-MINE FOR ORAL SUSPENSION, USP is now ready to drink.

Always mix CHOLESTYRAMINE FOR ORAL SUSPENSION, USP with water, or the beverage of your choice, or other highly fluid foods or fruits before using.

Keep this and all medication out of the reach of children. This package is not child-resistant.

Always replace plastic lid after using.

Usual Dosage: See package insert for dosage information.

\*Each level scoopful (9 grams) of: CHOLESTYRAMINE FOR ORAL SUSPENSION, USP contains 4 grams of cholestyramine resin, USP. NDC 0172-2830-36 ZENITH GOLDLINE PHARMACEUTICALS, IN FT. LAUDERDALE, FL 333

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